

Title (en)
AUTOMATED ANALYZER

Title (de)
AUTOMATISIERTER ANALYSATOR

Title (fr)
ANALYSEUR AUTOMATISÉ

Publication
EP 4071484 A4 20231227 (EN)

Application
EP 20895734 A 20201021

Priority
• JP 2019221061 A 20191206
• JP 2020039517 W 20201021

Abstract (en)
[origin: EP4071484A1] Provided is an automatic analysis device that improves the uniformity of a mixed liquid by noise agitation by a dispensing mechanism. The dispensing mechanism agitates a mixed liquid 103 by suctioning the mixed liquid 103 into a reaction vessel 102 by a nozzle 101 and then re-discharging the suctioned mixed liquid into the reaction vessel. When the mixed liquid is re-discharged into the reaction vessel, the nozzle is moved upward at a speed higher than a speed at which the liquid surface of the mixed liquid rises due to the re-discharging of the mixed liquid from the nozzle during a first period (time points T_{2} to T_{3}) and lowers the speed of moving the nozzle upward than the speed during the first period while maintaining or reducing the speed at which the liquid surface of the mixed liquid rises due to re-discharging of the mixed liquid from the nozzle during a second period (time points T_{3} to T_{4}) following the first period.

IPC 8 full level
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CPC (source: EP US)
G01N 35/00584 (2013.01 - EP); **G01N 35/02** (2013.01 - US); **G01N 35/1009** (2013.01 - EP); **G01N 35/1011** (2013.01 - EP);
G01N 2035/00356 (2013.01 - EP US); **G01N 2035/00534** (2013.01 - US); **G01N 2035/00544** (2013.01 - EP US); **G01N 2035/1023** (2013.01 - US);
G01N 2035/1058 (2013.01 - US); **G01N 2035/106** (2013.01 - EP)

Citation (search report)
• [A] EP 3557263 A1 20191023 - HITACHI HIGH TECH CORP [JP]
• [A] US 2009316519 A1 20091224 - GORKA GUENTHER [DE]
• [A] US 2019265264 A1 20190829 - YAMATO TAKASHI [JP], et al
• [A] EP 3553529 A1 20191016 - HITACHI HIGH TECH CORP [JP]
• See also references of WO 2021111754A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4071484 A1 20221012; **EP 4071484 A4 20231227**; **EP 4071484 B1 20240911**; CN 114729952 A 20220708; JP 2021089253 A 20210610;
JP 7292195 B2 20230616; US 2022397582 A1 20221215; WO 2021111754 A1 20210610

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EP 20895734 A 20201021; CN 202080080882 A 20201021; JP 2019221061 A 20191206; JP 2020039517 W 20201021;
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